

JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION Engineer, Water Resources		DWR POSITION NUMBER 3480-3137-027	SAP POSITION NUMBER 50094104	MCR 1
APPOINTEE Vacant		SAP PERSONNEL NO. TBD	DIVISION/SECTION DOE/Design/GSB/Geotechnical Engineering Section	
COLLECTIVE BARGAINING IDENTIFIER Management Related BU: ☐ Supervisory Related BU: ☐ Confidential Related BU: ☒ Rank and File BU: R09				
RESPONSIBILITIES EXERCISED ☐ Supervisory ☐ Lead Person		IMMEDIATE SUPERVISOR (Print) Youssef Awad	SUPERVISOR'S CLASSIFICATION Senior Engineer, Water Resources	
APPROVED BY (Personnel Analyst's Name) Estevez Contreras			DATE 01/30/2026	
<i>Percent of Time</i>	<i>Activity</i>			
	POSITION SUMMARY: Under the direction of a Senior Engineer, WR, the incumbent provides civil and geotechnical engineering support for a wide variety of State Water Project facilities, including analysis, design, and construction of earthen dams, canals, retaining walls, foundations, ground anchors, spillways, intakes, and a variety of hydraulic structures.			
	ESSENTIAL FUNCTIONS: This position requires that the incumbent work cooperatively with others and maintain consistent and regular attendance. This position also requires demonstrating initiative and follow-through with work assignments. The specific essential duties are, but are not limited to, the following:			
35%	Prepare civil engineering designs of increasing complexity for a variety of water development facilities using engineering applications such as Slope/W, Seep/W, FLAC, LPILE, ProShake, and ArcGIS. Prepare design details for contract drawings using CAD software, compile quantity estimates, make cost comparisons of design alternatives, determine costs associated with environmental requirements, and assist in the preparation of specifications.			
30%	Research engineering records, perform special studies, and participate in Potential Failure Mode Analyses of State Water Project (SWP) facilities. Using Microsoft Office and Outlook, prepare written responses to a wide variety of inquiries and requests regarding project designs, studies, construction, existing conditions, and maintenance.			
20%	Perform engineering modeling and studies involving existing and proposed SWP facilities and assist with the preparation of engineering reports and figures to document and explain the results. Prepare or assist in the preparation of engineering reports and memoranda regarding design criteria and other design and construction considerations. Use word processing software (e.g., Word), spreadsheets (e.g., Excel and Mathcad), and reference materials appropriate for the tasks. The use of Plain English is required (Statute Section 6219) for all written correspondence.			
SUPERVISOR'S STATEMENT: I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.				
SUPERVISOR'S NAME (Print) Youssef Awad		SUPERVISOR'S SIGNATURE ➤		DATE
EMPLOYEE'S STATEMENT: I HAVE DISCUSSED WITH MY SUPERVISOR THE DUTIES OF THE POSITION AND HAVE RECEIVED A COPY OF THE DUTY STATEMENT.				
EMPLOYEE'S NAME (Print) Vacant		EMPLOYEE'S SIGNATURE ➤		DATE

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Percent of Time	Activity			
5%	Review shop drawings and other contractor submittals related to in-progress construction. Coordinate with Construction Branch personnel to resolve changes and evaluate construction conditions relative to design intent. Make field trips as necessary to investigate and resolve issues arising during construction and assist with construction inspections, as needed, which may require driving a vehicle on public roadways.			
5%	Respond to inquiries from other Engineering Units, other Department divisions, and other agencies regarding the results of engineering studies completed, design, construction considerations, and other special studies performed for existing and proposed SWP facilities.			
5%	Perform field inspection of existing or proposed facilities. Perform inspections of slopes, embankments, bridges, tunnels, pipelines, building structures, hydraulic structures, and other enclosed or confined areas; often in uneven, rugged, and vegetated terrain. Involves driving a pick-up truck off-road to and from the job sites, possibly on rugged terrain.			
OTHER RESPONSIBILITIES: This position also provides necessary support to the Divisions of Flood Management, Safety of Dams, Operations and Maintenance, Engineering, and/or the Public Affairs Office during governor declared emergencies, flood, dam, State Water Project, and other incidents and emergencies. Additionally this position may participate in emergency operations in the capacity of area teams, field inspection, coordination, and assist agencies such as CalOES and FEMA in disaster work, including performing fieldwork to complete damage survey reports for droughts, flooding, earthquakes, and other emergencies. This position may also serve in one of the sections as established in the Incident Command System to assist the Department in performing its emergency preparedness, response, recover, and mitigation functions. These functions are established in the California State Emergency Plan and the Department's Administrative Orders.				
SPECIAL REQUIREMENTS: Must possess a valid California driver's license when conducting State business that requires driving a vehicle. Travel on short notice and overnight lodging will be required on some trips.				
The Department of Water Resources is committed to its mission and employees, and we are grounded in our commitment to public safety. Regular, consistent, and predictable attendance is essential to the successful performance in this position.				
Diversity, Equity and Inclusion All employees are responsible for contributing to an inclusive, safe, and secure work environment that values diverse cultures, perspectives, and experiences, and is free from discrimination.				

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		KNOWLEDGE, SKILLS, AND ABILITIES: The scope of responsibility of the Engineer, W.R., in the Geotechnical Engineering Section requires fundamental knowledge, skills, and abilities in: hydrology; engineering economics; hydraulic flow; design of structures, including reinforced concrete, timber, and structural steels; soil and rock mechanics; applicable design and building codes; and computer applications to design. Experience in the subjects above, with an emphasis in geotechnical engineering is strongly desirable.					